National Center for Science and Engineering Statistics | NSF 18-313

TABLE 3
Worldwide R&D paid for by the company and others and performed by the company, by industry, company size, and worldwide R&D program size: 2015

(Millions of U.S. dollars)

	NAICS code	R&D program size								
Industry		All compani	es	Less than \$1 million	\$1 million- \$9.999 million	\$49.999		\$100 million or more		
All industries	21-23, 31-33, 42-	429,512		10,055 i	25,785	34,195	21,504	337,972		
Manufacturing industries	31-33	288,051		4,888 i	12,412	19,255	14,752	236,744		
Food	311	6,070	i	224 i	540	462	608	4,237 i		
Beverages and tobacco products	312	1,525		25 i	39	192	195	1,074		
Textiles, apparel, and leather products	313-16	819		123 i	175	265	256	0		
Wood products	321	198		47 i	48	103	0	0		
Paper	322	867		51 i	89	127	104 i	496		
Printing and related support activities	323	198	i	67 i	81	50 i	0	0		
Petroleum and coal products	324	252		D	45	65	D	0		
Chemicals	325	81,342		476 i	2,445	5,596	4,165	68,660		
Basic chemicals	3251	3,677		50 i		626	506	2,102		
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,780		146 i	156	149	79	1,251		
Pesticides, fertilizers, and other agricultural chemicals	3253	3,405		D	41	D	0	3,245		
Pharmaceuticals and medicines	3254	69,266		58 i	1,486	4,458	3,009	60,254		
Soaps, cleaning compounds, and toilet preparations	3256	1,549		72 i	124	189	152	1,013		
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,665		D	246	D	419	795		
Plastics and rubber products	326	2,899		285 i	702	758	577	577		
Nonmetallic mineral products	327	1,487		80 i		234	0	1,015		
Primary metals	331	715		71 i	170	245	0	230		
Fabricated metal products	332	2,454	i	709 i	710	691	344	0		
Machinery	333	16,718		844 i	1,718	2,098	1,119	10,939		
Agricultural implements	33311	2,152		67 i	91	122	88	1,783		
Semiconductor machinery	333242	3,812		9 i	34	198	177	3,395		
Engines, turbines, and power transmission equipment	3336	2,945		36 i	45	407	0	2,458		
Other machinery	other 333	7,809		732 i	1,548	1,372	855	3,303		
Computer and electronic products	334	92,783		802 i	2,323	3,871	3,707	82,079		
Communications equipment	3342	23,049		121 i	348	671	1,051	20,858		
Semiconductors and other electronic components	3344	40,348		264 i	695	1,488	1,338	36,563		
Navigational, measuring, electromedical, and control instruments	3345	16,943		285 i	1,005	1,105	769	13,779		
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	3,681		62 i	296	294	557	2,473		
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	8,033		7 i	116	186	0	7,724		
Other measuring and controlling devices	other 3345	5,228		216 i	593	625	212	3,582		
Other computer and electronic products	other 334	12,444		133 i	275	607	550	10,879		
Electrical equipment, appliances, and components	335	5,687		171 i	610	841	829	3,236		
Transportation equipment	336	57,687		331 i	1,014	1,891	1,643	52,808		
Automobiles, bodies, trailers, and parts	3361-63	25,698		194 i	553	1,276	876	22,800		
Aerospace products and parts	3364	29,139		70 i	332	401	637	27,700		
Aircraft, aircraft engines, and aircraft parts	336411-13	27,489		67 i	311	377	510	26,225		
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,649	i	3 i	20	24	127	1,475 i		

National Center for Science and Engineering Statistics | NSF 18-313

TABLE 3
Worldwide R&D paid for by the company and others and performed by the company, by industry, company size, and worldwide R&D program size: 2015

(Millions of U.S. dollars)

		R&D program size								
Industry	NAICS code	All compani	es	Less than \$1 million	\$1 million \$9.999 million	– mill 9 \$49			9 million	
Military armored vehicles, tanks, and tank components	336992	16		4	12		0	0	0	
Other transportation	other 336	2,834		64 i	117	2	15	130	i 2,308	
Furniture and related products	337	477		121 i			25	62	0	
Miscellaneous manufacturing	339	15,873		D	1,476	1,5	_	D	11,396	
Medical equipment and supplies	3391	13,170		196 i		1,2	_	873	9,705	
Other miscellaneous manufacturing	3399	2,703	i	D	281		38	D	1,691	
Nonmanufacturing industries	21-23, 42-81	141,461	Ť		13,373	14,9	_	6,752	101,228	
Mining, extraction, and support activities	21	4,348		D .	155		12	D	3,984	
Utilities	22	483		10 i			24	0	293	
Wholesale trade	42	1,793	i	861 i		_	18	i 0	0	
Electronic shopping and electronic auctions	454111-12	D	Ė	128 i		_	64	i 0	D	
Transportation and warehousing	48-49	416		D	27		D	0	321	
Information	51	78,035		765 i		4,3	-	3,398	66,559	
Publishing	511	42,187		368 i		1,6	_	1,441	37,585	
Newspaper, periodical, book, and directory publishers	5111	107	i	24 i			70	0	0	
Software publishers	5112	42,080		344 i	1,129	1,5	80	1,441	37,585	
Telecommunications	517	3,648		41 i		1	59	265	2,748	
Data processing, hosting, and related services	518	10,677		250 i	1,250	2,2	25	1,508	5,444	
Other information	other 51	21,523		105 i		_	75	184	20,782	
Finance and insurance	52	6,292		11 i		6	29	177	5,321	
Real estate and rental and leasing	53	314		D	13		D	221	0	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D		4 i	3		D	0	0	
Other real estate and rental and leasing	other 53	D		D	10		0	221	0	
Professional, scientific, and technical services	54	46,276		3,156 i	8,551	9,0	61	2,506	23,002	
Architectural, engineering, and related services	5413	4,187	i	676 i	1,146	i 1,2	92	i 257	815	
Computer systems design and related services	5415	17,225		1,466 i	2,170	i 3,2	11	882	9,496	
Scientific research and development services	5417	20,707		653 i	4,401	3,3	68	1,084	i 11,201	
Biotechnology research and development	541711	7,211	i	175 i	1,394	7	60	687	i 4,195	
Physical, engineering, and life sciences (except biotechnology) research and development	541712	12,787		472 i	2,967	2,5	89	397	6,362	
Social sciences and humanities research and development	541720	708		6 i	40		19	0	643	
Other professional, scientific, and technical services	other 54	4,157		361 i	834	1,1	90	283	1,490	
Health care services	621-23	771	i	71 i	204		65	217	i 214	
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55- 56, 624, 71-72, 81	D		D	370		D	D	D	
All companies (number of domestic employees)		429,512		10,055 i	25,785	34,1	95	21,504	337,972	
Micro companies ^a						Ť		1		
5-9	_	3,107	i	1,838 i	1,175	i	93	i 0	0	
Small companies		5,107	Ė	.,555 1	.,.,5	1				
10-19	_	5,756	i	2,431 i	3,044	2	81	i 0	0	
20-49	_	10,624	i	2,839 i		2,0	_	127	0	
Medium companies		10,024	L'	2,000	5,020	2,0	33	127		
50-99		11,916		1,337 i	4,703	4,7	11	457	i 708	

National Center for Science and Engineering Statistics | NSF 18-313

TABLE 3

Worldwide R&D paid for by the company and others and performed by the company, by industry, company size, and worldwide R&D program size: 2015

(Millions of U.S. dollars)

		R&D program size							
Industry	NAICS code	All companies	Less than \$1 million	\$1 million- \$9.999 million	\$10 million- \$49.999 million	\$50 million- \$99.999 million	\$100 million or more		
100-249	_	14,991	1,008 i	4,761	6,481	1,617	1,124		
Large companies									
250-499	_	14,675	376 i	2,882	5,821	2,627	2,968		
500-999	_	17,643	126 i	1,634	4,483	5,307	6,093		
1,000-4,999	_	71,610	84 i	1,603	7,218	8,043	54,663		
5,000-9,999	_	48,336	7 i	154	1,894	2,188	44,093		
10,000-24,999	_	70,870	7 i	150	641	720	69,353		
25,000 or more	_	159,984	2 i	56	538	418	158,970		

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

Note(s)

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. R&D program size classifications are based on R&D performance.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.

^a Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.